



UHER

**UHER**

**COMPACT DISC PLAYER**

**1200 CD**



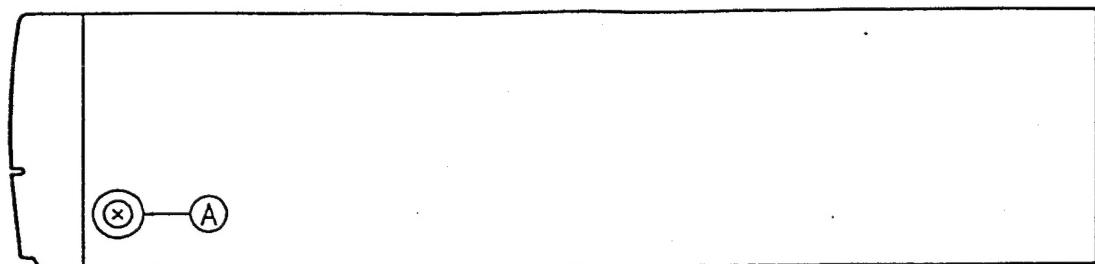


Figure 1

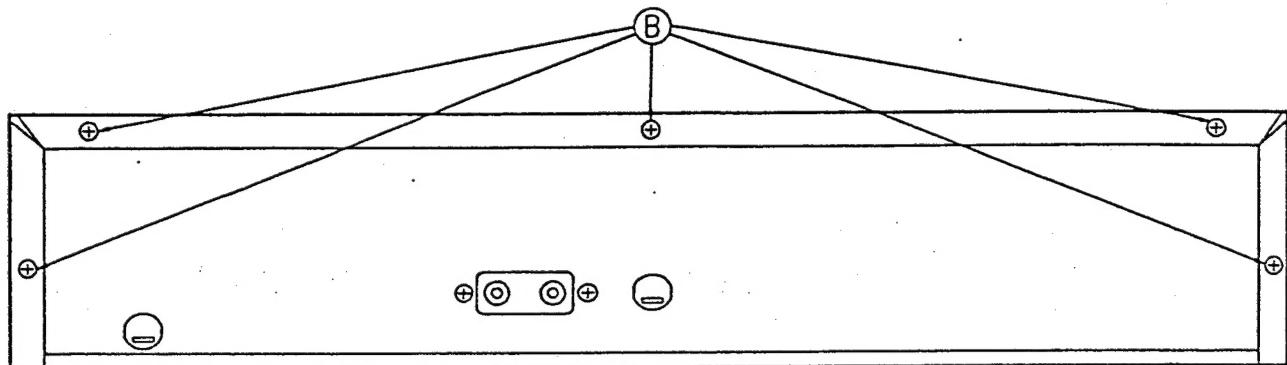


Figure 2

#### TO REMOVE TOP COVER

1. Remove 2 screws (A) from left and right sides of top cover. (See Fig. 1)
2. Remove 5 screws (B) from back panel of top cover. (See Fig. 2)
3. Top cover can now be removed.

#### Adjustment Locations

CD DECODER PCB

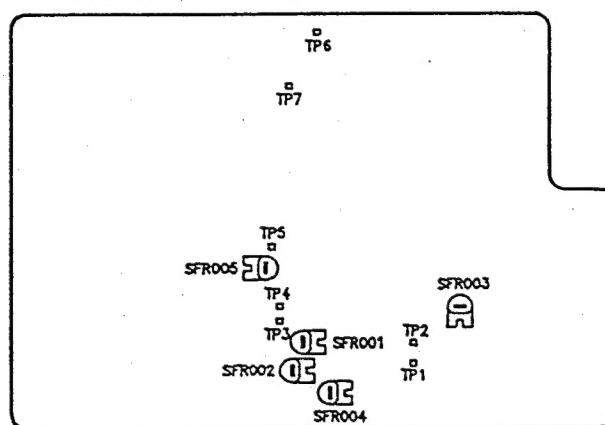


Figure 3

Uher  
1200 CD

MODEL NO. COMPACT 1200CD  
COMPACT DISC PLAYER

SPECIFICATIONS

PLAYBACK SYSTEM

COMPACT DISC DIGITAL AUDIO

TYPICAL AUDIO PERFORMANCE

FREQUENCY RANGE	20Hz - 20kHz
OUTPUT IMPEDANCE	10k ohm//300pF
OUTPUT LEVEL	1.7 Vrms
AMPLITUDE LINEARITY	±1.0dB
SIGNAL-TO-NOISE RATIO	> 84dB W/F
CHANNEL SEPARATION	> 78dB W/F (1kHz)
T.H.D. (INCL. NOISE)	< 0.1% W/F (1kHz)
INTERMODULATION DISTORTION	-60dB (AT MAX. OUTPUT)

OPTICAL READOUT SYSTEM

LASER TYPE	SEMICONDUCTOR AL CA AS
NUMERICAL APERTURE	0.456
WAVE LENGTH	780 nm

POWER SUPPLY

POWER SOURCE	AC 230V, 50Hz
POWER CONSUMPTION	8.5 WATT WITH 4 DIGIT LCD DISPLAY

DIMENSION

W=41.9cm(16-1/2") x H=8.5cm(3-3/8") x  
D=35.4cm(13-15/16")

WEIGHT

4 kgs (8.8 lbs)

**RF PLL VCO Adjustment**

Test Points: TP5, TP6, TP7

1. Short TP5 and TP6, in stop mode.
2. Frequency counter connect to TP7, adjust SFR005, let counter reading as  $4.2418\text{MHz}\pm10\text{KHz}$  ( $4.2318\text{--}4.2518$ ).
3. Open TP5 and TP6 after above procedures.

**Focus Bias Adjustment**

Test Points: TP1, TP2

1. In play mode.
2. Scope connect to TP1 (RF) and TP2 (GND).
3. Adjust SFR003 let RF waveform output to maximum.

**EF Balance Adjustment**

Test Points: TP2, TP3, TP4

1. In play mode, scope connect to TP4 and TP2 (GND), TP2 and TP3 short.
2. Adjust SFR004 symmetrize to DC 0V.
3. See Fig. 4



Figure 4

**Focus Servo Gain Adjustment**

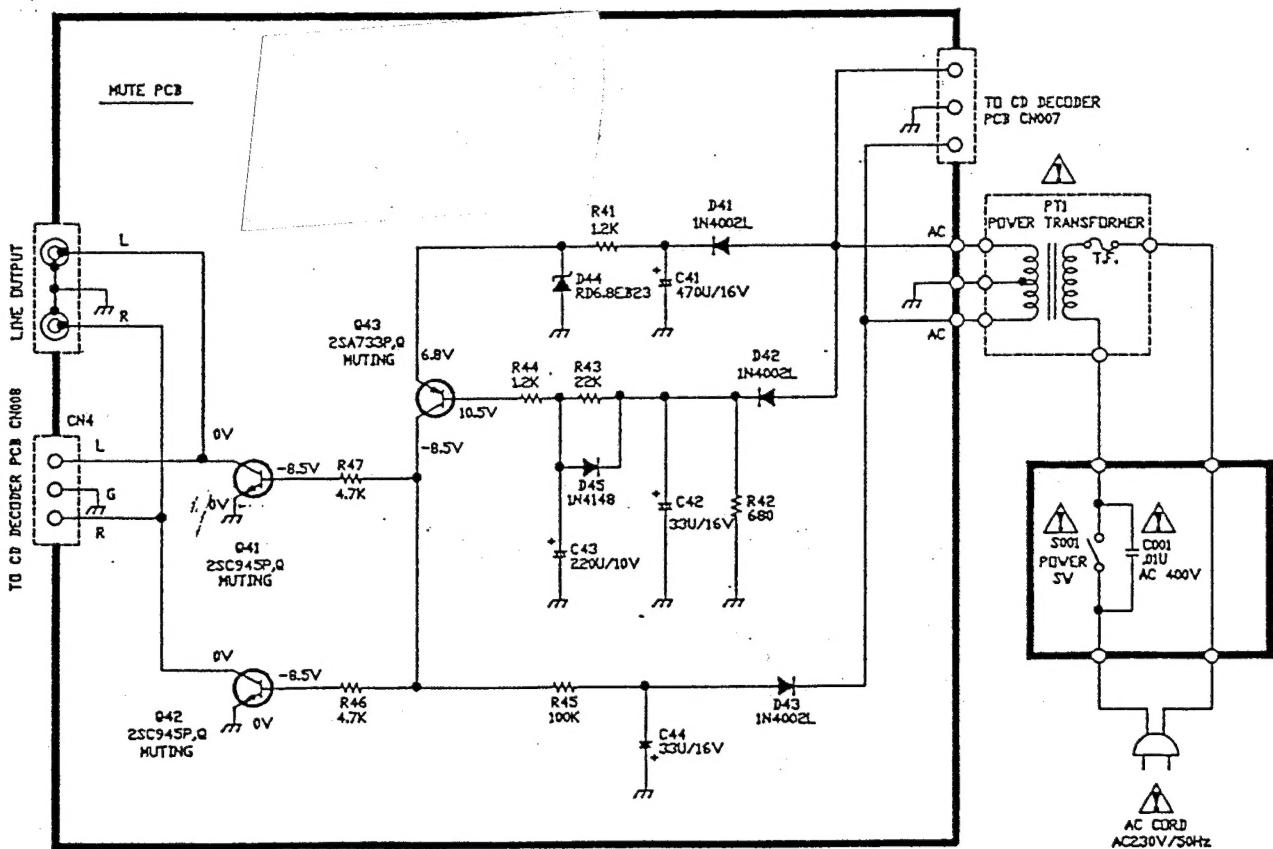
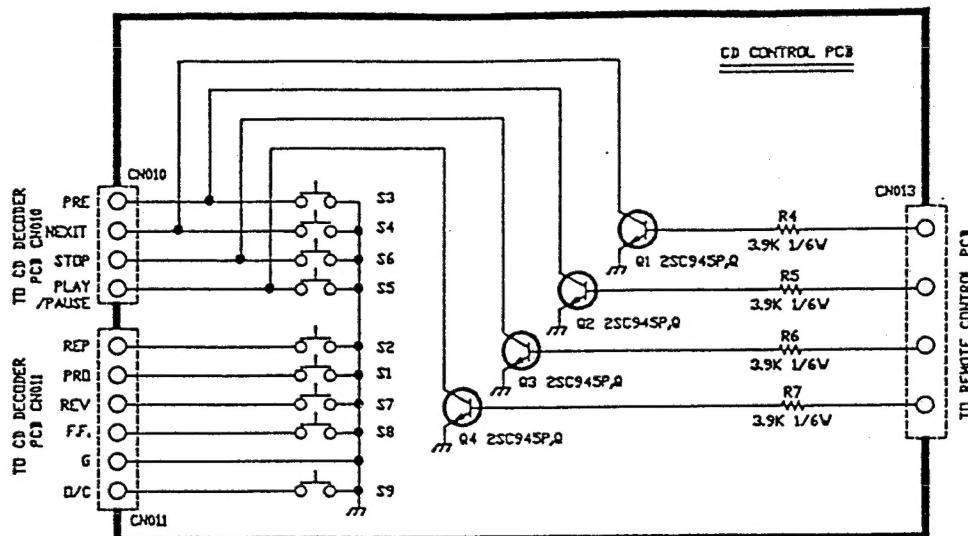
✓ Power OFF.  
 Disconnect CN009, and connect sony CDP servo analyzer.

3. Power ON and play the disc (YEDS-18)
4. Set servo analyzer in focus mode, and adjust SFR002.
5. Let the pointers in the center of the red area (GND to TP6).
6. Repeat the adjustment for the first and the last programs of the disc.

**Track Servo Gain Adjustment**

1. Set servo analyzer in track mode.
2. Adjust SFR001, let the pointers in the center of the red area (GND to TP6).
3. Repeat the adjustment for the first and the last programs of the disc.
4. Power OFF, re-connect CN009.

Remark: All the adjustment personnel should equipped with anti-static wristlet.



SCHEMATIC NOTES:

1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. RESISTANCE VALUES ARE IN OHMS  $\Omega$ —1000 $\mu$ -MEGOMS.
3. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/4 WATT CARBON FILM  $\pm 5\%$  TOLERANCE.
4. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER  $\geq 10$  MEGOMBS MIN.

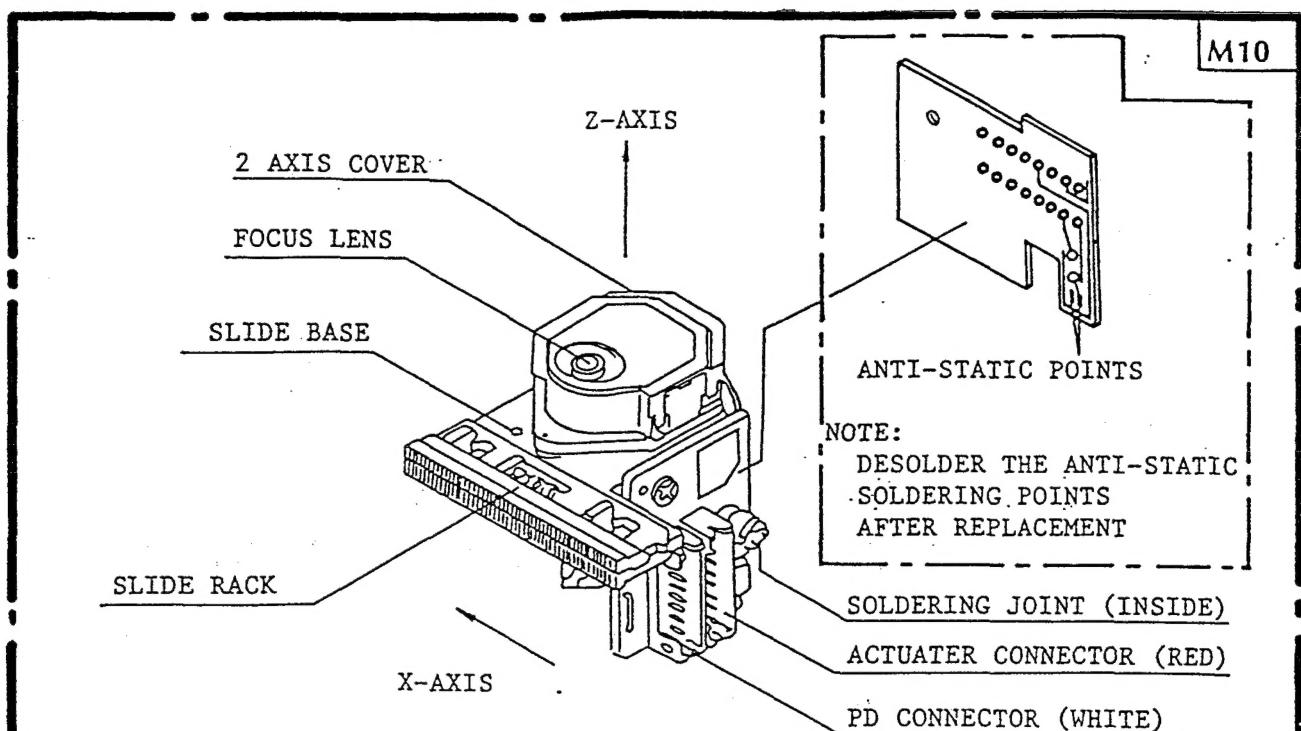
5. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
6.  =COMMON GROUND SYMBOL
7. S1-S9 =TACT SWITCH.

25C945P8

ALL INTEGRATED CIRCUITS AND MANY OTHER SEMICONDUCTOR DEVICES ARE ELECTROSTATICALLY SENSITIVE, AND THEREFORE REQUIRE THE SPECIAL HANDLING TECHNIQUES DESCRIBED UNDER THE "ELECTROSTATICALLY SENSITIVE(ESD) DEVICES" SECTION OF THIS SERVICE MANUAL.

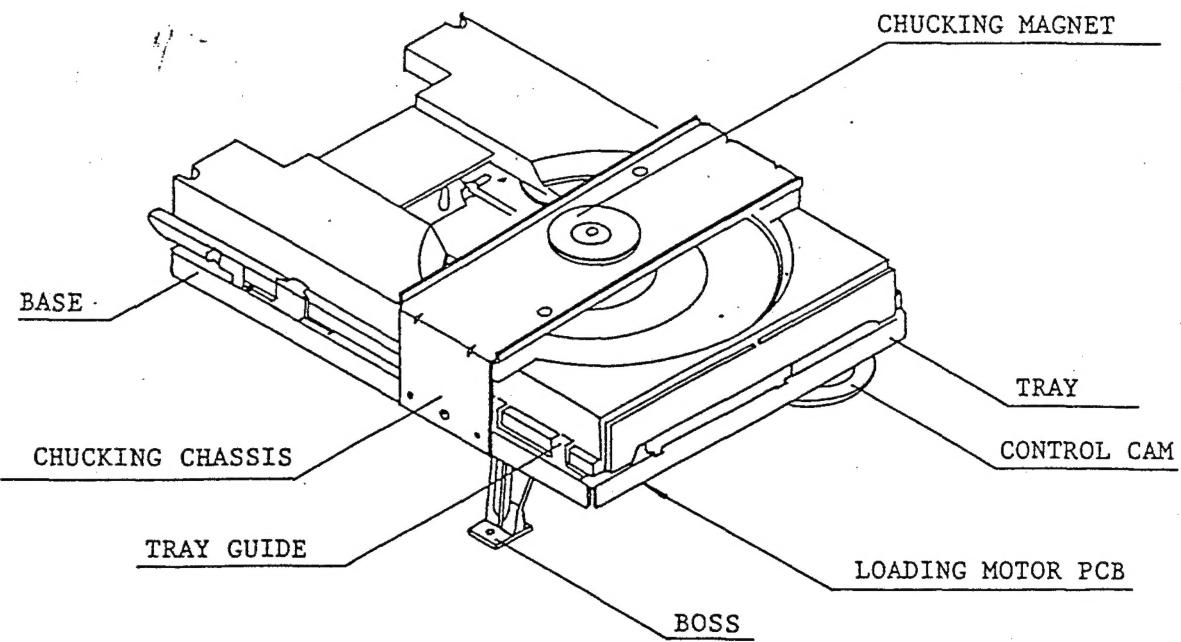
# CD Player Exploded View

Model No. COMPACT 1200



OPTICAL PICK-UP

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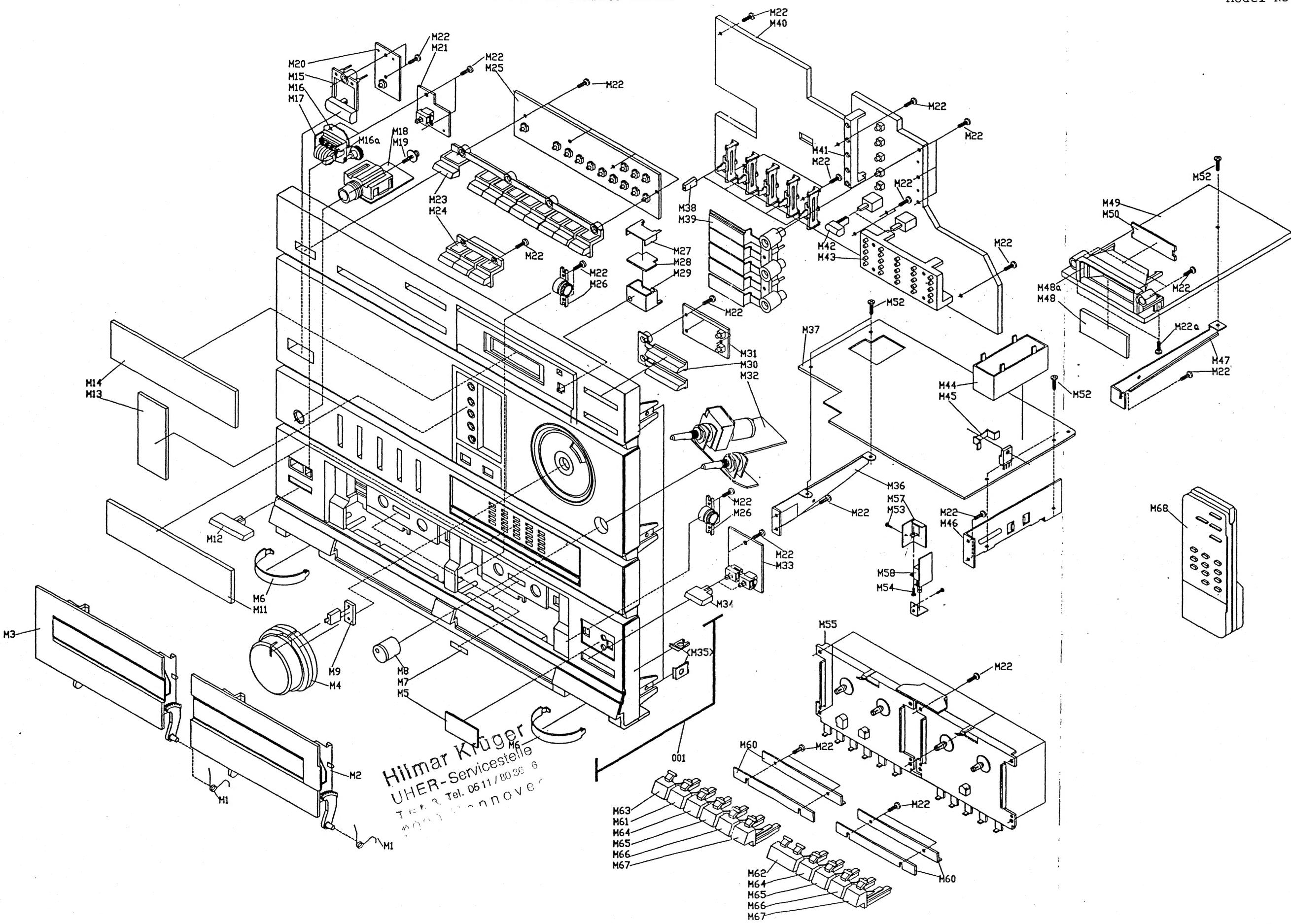
NOTE:

USE THIS DIAGRAM FOR REFERENCE ONLY. PARTS NOT AVAILABLE SEPARATELY.



### Mechanical Exploded View (A)

Model No. COMPACT 1200CD

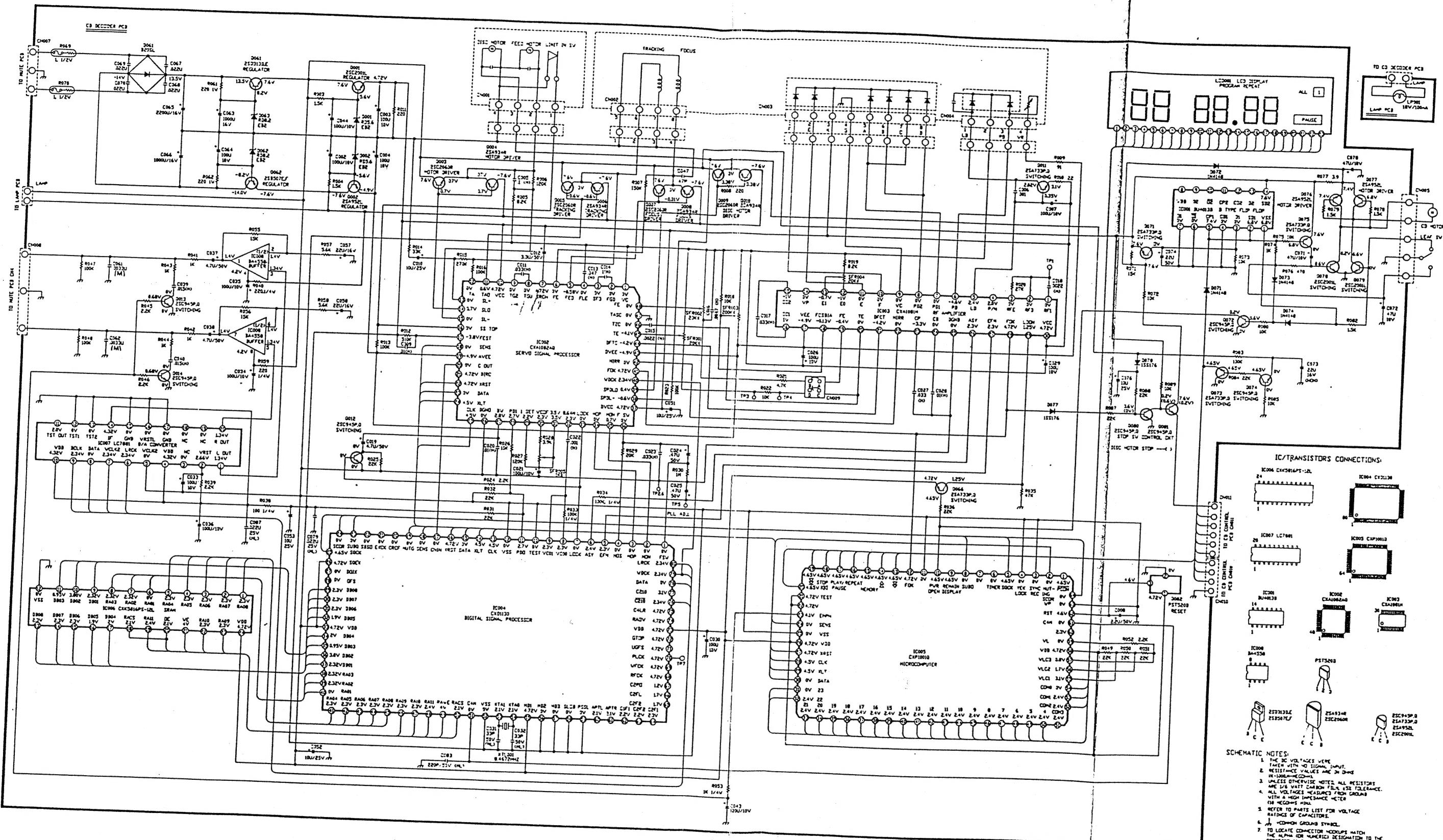


Model No. COMPACT 1200CD

### Schematic Diagram (A)

Model No. COMPACT 1200CD

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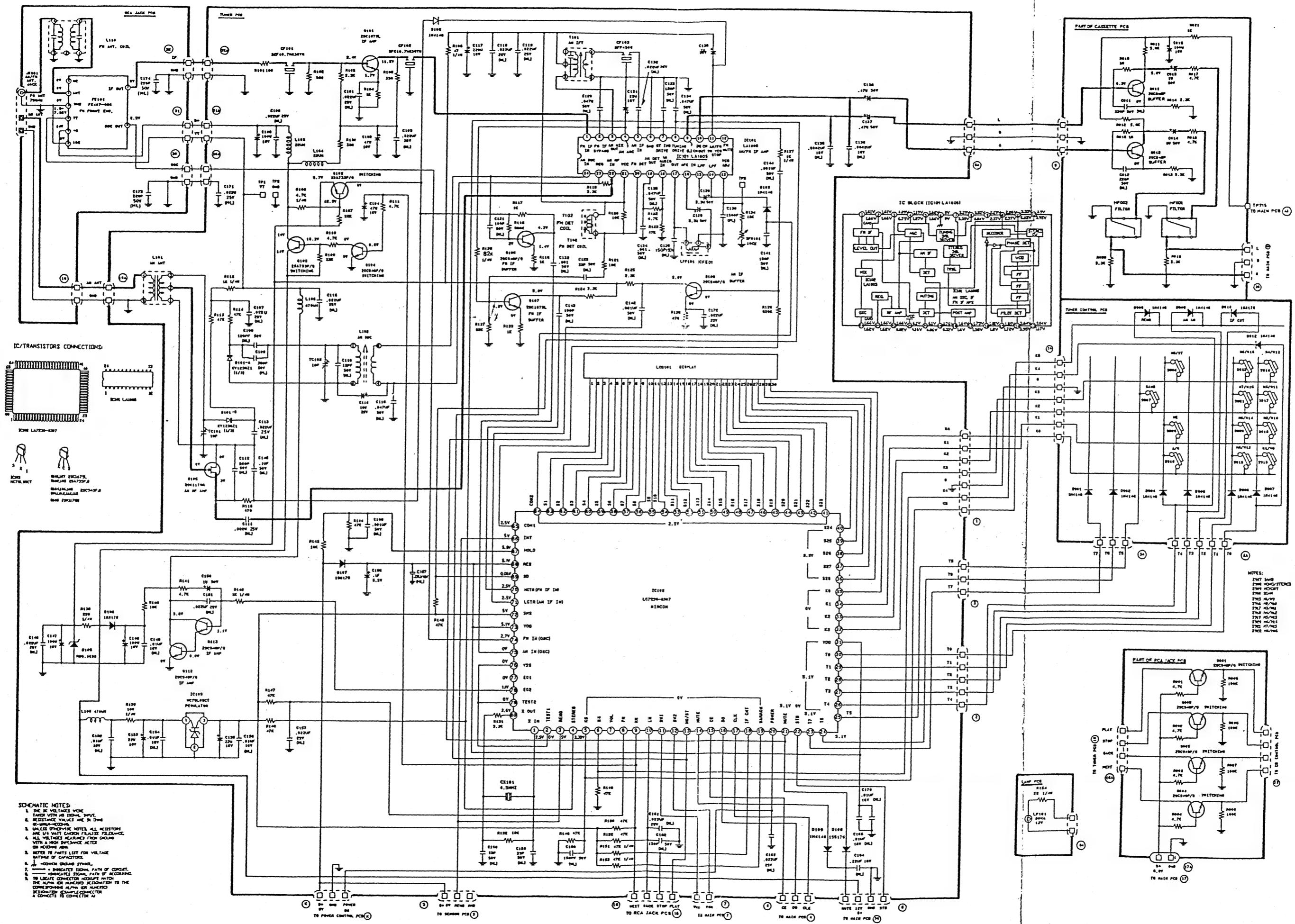


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# Tuner Schematic Diagram

Model No. COMPACT 1200CD

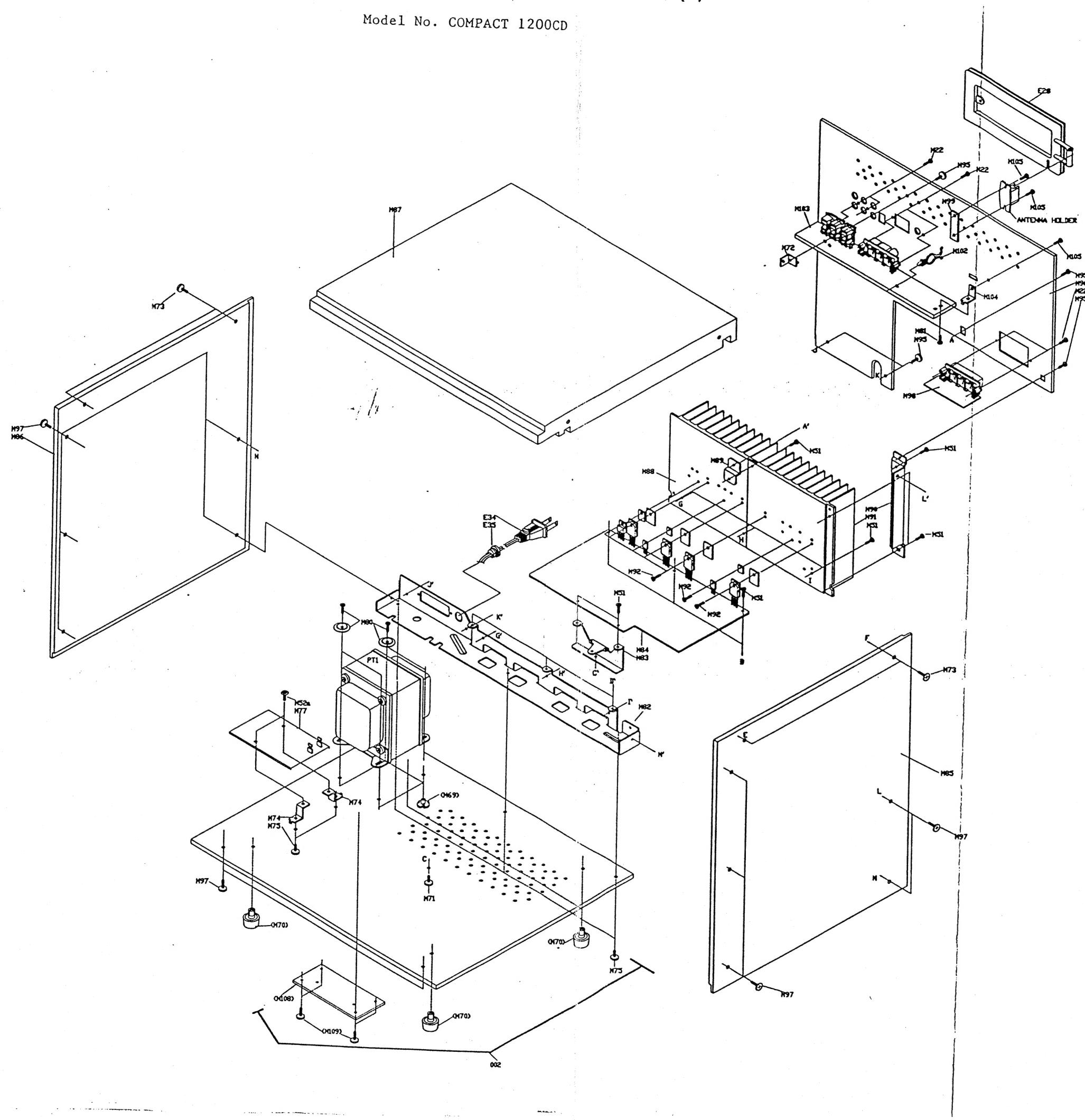
Model No. COMPACT 1200CD



# Mechanical Exploded View (B)

Model No. COMPACT 1200CD

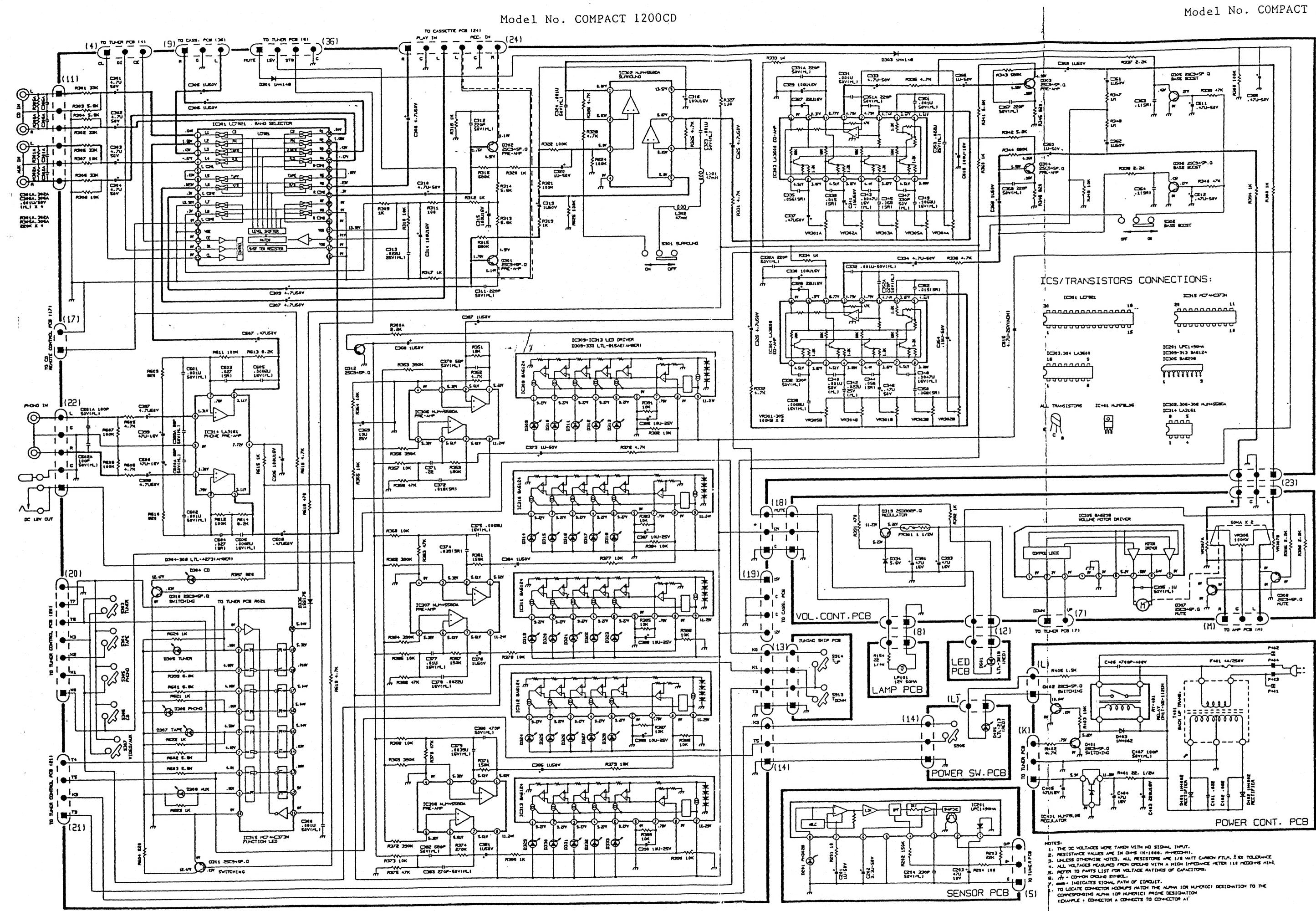
Model No. COMPACT 1200CD



## Main Schematic Diagram

Model No. COMPACT 1200CD

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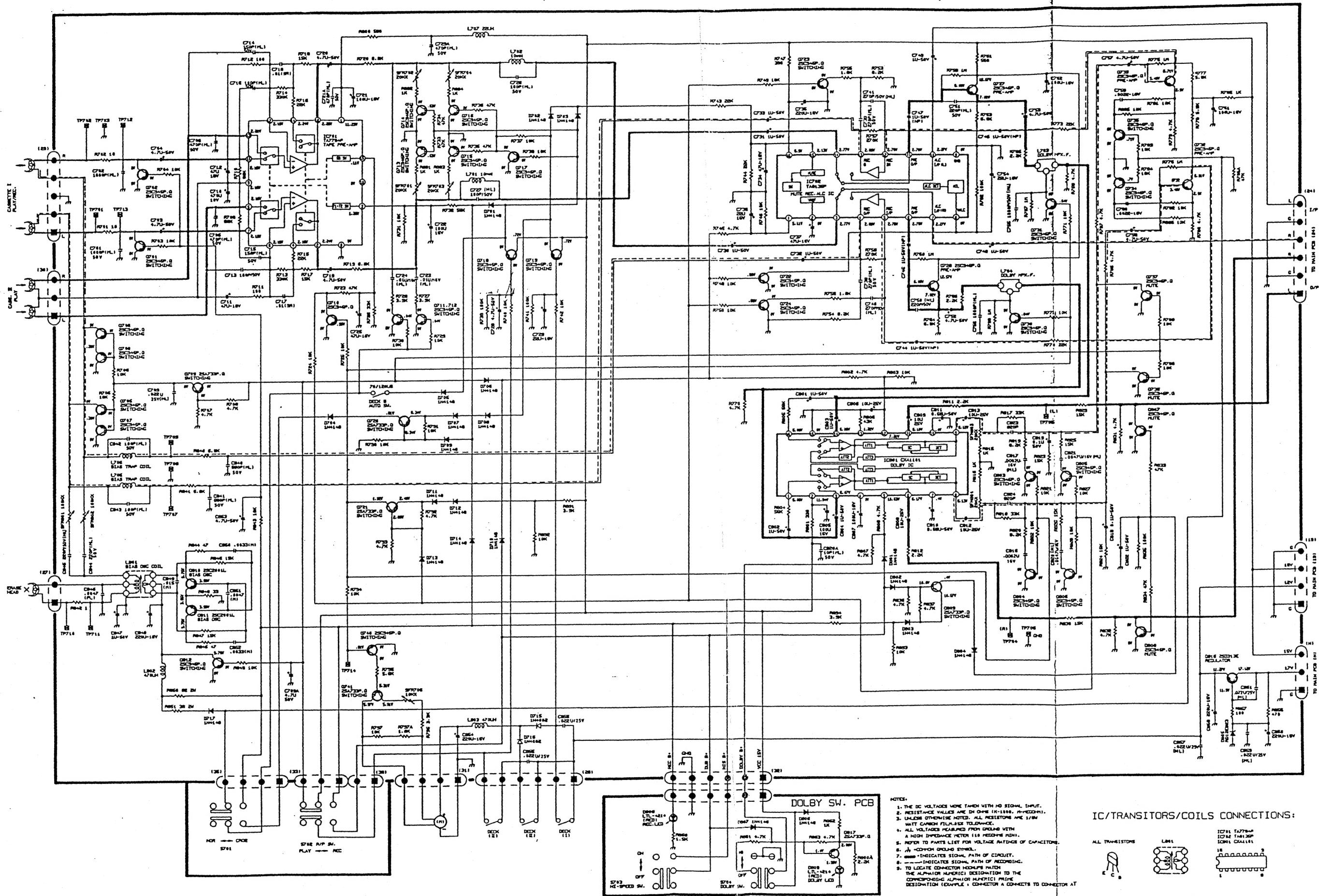


1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. RESISTANCE VALUES ARE IN OHMS (K=1000, M=1000000).
3. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/8 WATT CARBON FILM,  $\pm 5\%$  TOLERANCE.
4. ALL VOLTAGE MEASUREMENTS WERE TAKEN FROM GND/COMMON WITH A HIGH IMPEDANCE METERS (10 MEGOMS INPUT).
5. REFER TO CIRCUIT FOR VOLTAGE RATINGS OF CAPACITORS.
6.  $\mu F$  = MICROMICROFARAD.
7.  $\times$  = INDICATES SIGNAL PATH OF CIRCUIT.
8. TO LOCATE CONNECTOR HOOKUPS PATCH THE ALPHA (OR NUMERIC) DESIGNATION TO THE CORRESPONDING ALPHA (OR NUMERIC) PRIME DESIGNATION.  
(EXAMPLE: CONNECTOR A CONNECTS TO CONNECTOR A')

## Cassette Schematic Diagram

Model No. COMPACT 1200CD

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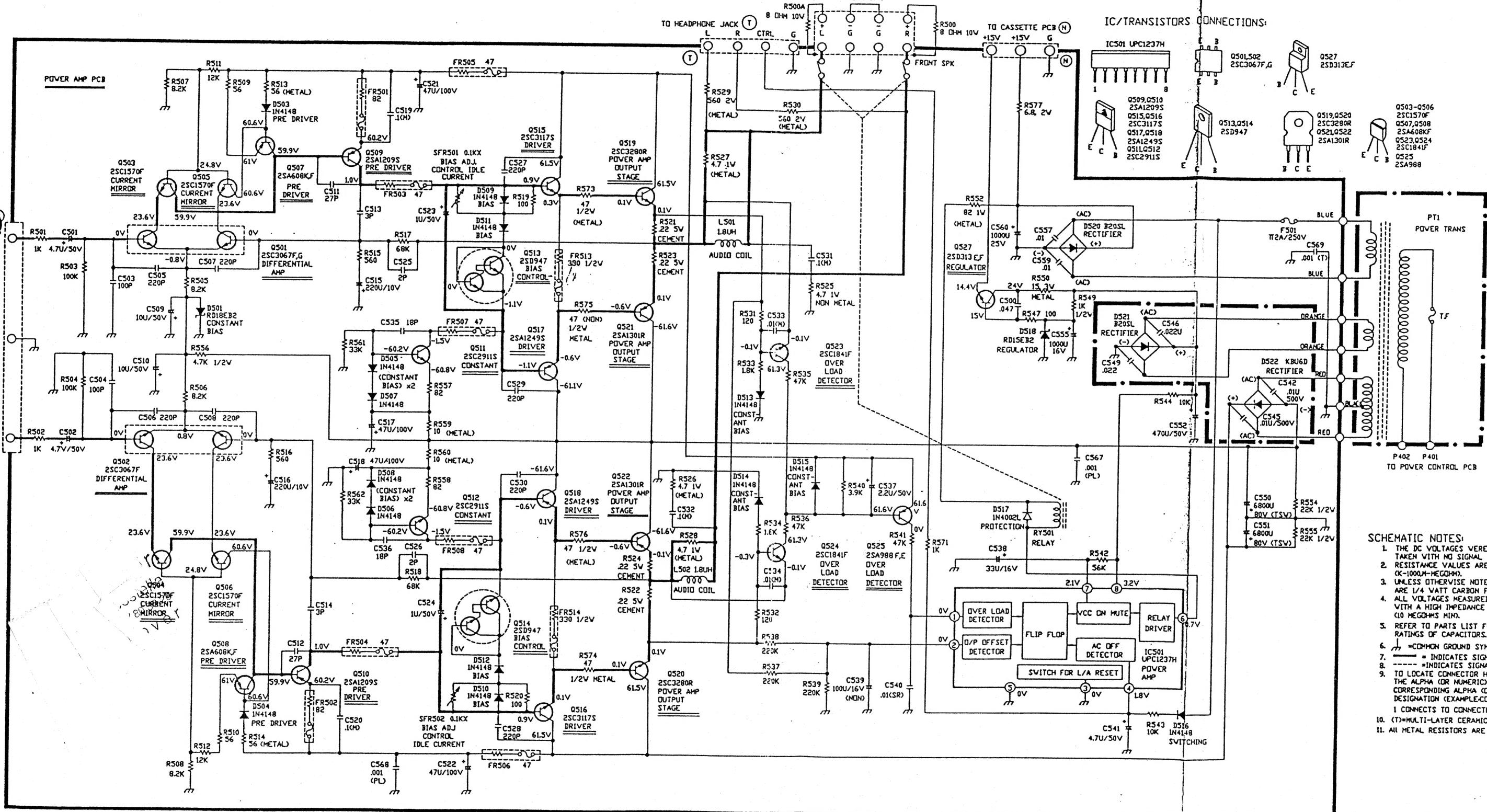
NOTES:

1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. RESISTANCE VALUES ARE IN OHMS (K=1000, M=1000000).
3. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/8W MATT CARBON FILM/LEAD TOLERANCE.
4. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER (10 MEGOHM INPUT).
5. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
6.  $\triangle$  COMMON GROUND SYMBOL.
7.  $\longrightarrow$  INDICATES SIGNAL PATH OF CIRCUIT.
8.  $\longrightarrow$  INDICATES SIGNAL PATH OF RECORDING.
9. TO LOCATE CONNECTOR, USE THE FOUR-DIGIT ALPHANUMERIC PATCH DESIGNATION (ALPHANUMERIC IDENTIFICATION TO THE CORRESPONDING ALPHANUMERIC FRAME DESIGNATION (EXAMPLE: CONNECTOR A CONNECTS TO CONNECTOR

## Power Amplifier Schematic Diagram

Model No. COMPACT 1200CD

Model No. COMPACT 1200CD



SCHEMATIC NOTES:

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1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. RESISTANCE VALUES ARE IN OHMS (K=1000M=MEGOM).
3. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/4 WATT CARBON FILM,  $\pm 5\%$  TOLERANCE.
4. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER. (10 MEGOMS MIN).
5. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
6.  = COMMON GROUND SYMBOL.
7.        = INDICATES SIGNAL PATH OF CIRCUIT.
8.        = INDICATES SIGNAL PATH OF RECORD.
9. TO LOCATE CONNECTOR HOOKUPS MATCH THE ALPHA (OR NUMERIC) DESIGNATION TO CORRESPONDING ALPHA (OR NUMERIC) DESIGNATION (EXAMPLE: CONNECTOR 1 CONNECTS TO CONNECTOR 1D).
10. (TD)=MULTI-LAYER CERAMIC CAPACITOR.
11. ALL METAL RESISTORS ARE NEW FLAME.